

**KABRA EXTRUSIONTECHNIK LTD.**

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**KABRA**  
EXTRUSIONTECHNIK

A KOLSITE Group Company

www.kolsite.com

March 4, 2010

The Secretary  
**Bombay Stock Exchange Limited**  
Phiroze Jeejeebhoy Towers,  
Dalal Street,  
Mumbai – 400 001

The Secretary  
**National Stock Exchange of India Limited**  
Exchange Plaza,  
Bandra Kurla Complex,  
Bandra (East)  
Mumbai – 400 051

Dear Sir / Madam,

Sub. : **Updation of Latest Development**

**Drip Irrigation** technology is the latest method of Water Management in agricultural sector.

The Company has developed hi-tech LLDPE Drip Irrigation Tube Extrusion Line.

A detailed note on the subject is forwarded herewith for updating the investors.

Thanking you,

Yours truly,  
For Kabra Extrusiontechnik Ltd.

Company Secretary

Encls. : As above

Works

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A Joint Venture with

**Battenfeld**  
Extrusiontechnik

**M**  
American  
Maplan

## **Live Demonstration and Supply of Advanced LLDPE Drip Irrigation Tube Extrusion Line**

Today, the increasing population & water shortage has become very crucial in India. It is estimated that the Indian population will touch to 130 Cr. by 2020. Agriculture is the biggest user of water, accounting world wide for about 69% of all withdrawals. In 2025, 48 countries with about 3 billion people are projected to face water shortages.

Agriculture sector which account for a large share in GDP of India is badly hit by the water shortage. The uncertain climatic conditions and less agricultural area under irrigation is decreasing the productivity of agriculture sector. It has now become very important to bring large area under irrigation and to stop loss and over utilisation of water.

Drip irrigation is emerging as a promising solution for water management in agriculture sector. Drip Irrigation, also known as 'Micro Irrigation System', is the latest method of water management. Under this system, water is carried to the plant under low pressure, through small diameter plastic pipes and delivered at the root zone, drop by drop through drippers.

Drip irrigation technology is rapidly expanding all over the world especially in the water scarce areas of developed countries. It is very popular in the areas of United States, Israel and some part of Europe.

North America and Europe has the highest record of drip irrigation utilization while Asia is in the development stage.

Its advantages are in terms of savings of water (50%-60%) of that required for flow irrigation, effective use of fertilizers, less labor and less energy cost. Average increase in the crop yield is in the range of 30% to 100%.

Government of India and various State Governments realized importance of drip irrigation to boost agricultural developments.

As a policy to encourage use of such systems, Govt. of India under **Centrally Sponsored Scheme (CSS)** for small and marginal farmers provides subsidy to the cost of equipments. The balance is available by institutional credit. Implementation of CSS boosted the pace of drip irrigation in various states such as Gujarat, Andhra Pradesh, Madhya Pradesh and Punjab.

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In terms of drip irrigation coverage, India is second only to USA and way ahead to China. Present market demand in India is about Rs. 2000 cr. It is estimated the market will grow steadily by 20% to 25% p.a. for the next few years.

As per report by Govt. of India, projected area to be covered by Micro Irrigation System will be 14 Lakh hectares by 2014 and 20 Lakh hectares by 2016. The average cost for installation of this system per hectare can be about Rs. 30,000. Based on this statistics the estimated market potential by 2014 will be Rs. 4,200 Cr. and Rs. 6,000 Cr. by the year 2016.

Now India has got most advanced LLDPE drip irrigation tube extrusion line manufactured by **Kabra Extrusiontechnik** in association with **Drip Research Technology Services (DRTS)**, USA, a world leader in Drip Irrigation. It offers hi-tech system comprising of Extruders designed by Battenfeld for best homogeneous melting of polymers, State of the art vacuum calibrator for calibrating & cooling of tube, Servo driven Haul off, Dual coiler for winding soft & semi rigid tubes with arrangement of precise setting & control laying steps (pitch) for uniform laying of tube to get best coils and specially designed Inserting device with electronic controls, Cross head with tooling for 12mm & 16mm, Aquarium with 12mm & 16mm calibration tools, Perforating device, Cutting device by DRTS.

Kabra Extrusiontechnik successfully demonstrated the Drip Irrigation tube extrusion line on 9<sup>th</sup> February 2010 at company's state of the art Daman Factory. Many leading plastics pipe processors witnessed this hi-tech machine demonstration and were satisfied with the overall performance in terms of drip inserting capacity, line speed and the quality of end product. The participants appreciated the overall performance of specially designed extruders, state of the art Vacuum Calibrator Servo driven Haul-off and Dual Coiler with unmatched features.

Considering the huge opportunity for plastics pipe processors, many customers showed keen interest in installing these high-end machines supplied by Kabra Extrusiontechnik. The company immediately received commitment for 5 nos. of such lines and is expecting to receive orders for good number of Machines in the coming financial year. The first state of the art Machine has been supplied, commissioned & installed at M/s Bothara Agro Equipments Pvt. Ltd., Ahmednagar, who are well established manufacturers of all types of pipes, fittings etc. All the extrusion machinery installed at Bothara Group so far, to manufacture all types of pipes (PVC, HDPE, PE, LLDPE) have been supplied by Kabra Extrusiontechnik Ltd.

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DRTS and Kabra Extrusion is planning to jointly export the Drip Irrigation tube extrusion lines to other countries and to establish a strong technical association to beat the competition by leveraging on world class technology. Mr. Doron Mamo, President, DRTS has shown a keen interest to partner with Kabra Extrusiontechnik and to supply indigenously developed equipments such as Extruders, Vacuum Calibrators, Spray Bath, Haul-off, Dual Coiler, along with their equipments such as electronically controlled Inserting device, Cross head, calibration tools, perforating device etc. and be a part of the revolution in irrigation systems which will take the partnership at new heights.

## Successful Demonstration of LLDPE Drip Irrigation Tube Extrusion Line on 9<sup>th</sup> February 2010 at Daman Factory



### Standard Features:

- **Output:** up to 230-250 kgs/hr
- **Extruder:** 60mm, 30:1
- **Tube Dia Range:** 12-20 mm
- **Raw Material:** LLDPE/LDPE/HDPE - Blend
- **Line Speed:** up to 80 mpm
- **Specially designed vacuum calibration tank and cooling bath for High Speed Extrusion**
- **State of the Art High Speed Servo Haul-off**
- **Dual Coiler with servo motor traverse**
- **Computerised Integrated Controls**

**Kabra Extrusiontechnik Ltd.**

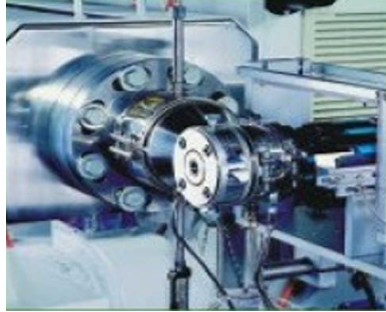
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## **LATEST DRTS (USA) TECHNOLOGY: ROUND DRIPPER TUBE**



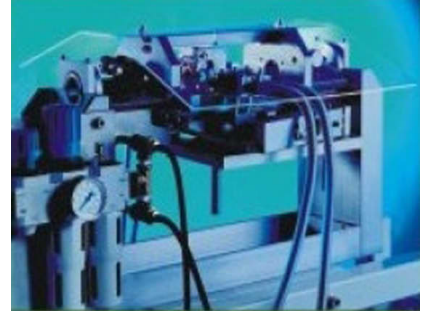
**Inserting Device**

Highly customizable  
upto 300 Drippers/min.



**Cross Head & Adaptor**

Highly polished flow surfaces  
and cooling in the center



**Perforating Device**

Perforates upto 300  
Drippers/min. 2/4 Holes  
At the required location

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